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DPD-1390-19
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27 February 1959

MEMORANDUM FOR : Deputy Director (Plans)
THRU : Chief, RAD, DPD-DS/P
Acting Chief, DPD-DD/P
SUBJECT : Costs for Projected P2V7U Development Program.

1. Pursuant to your request of 24 February 1959, the costs of the projected P2V7U development program are attached.
2. To complete the installation and testing of the prototype equipment will require \$180,000 of FY-59 funds and \$80,000 of FY-60 funds. The \$180,000 FY-59 funds have been budgeted and are available in the Overseas Air Support Fund. The \$80,000 FY-60 funds for proto type testing have been requested in the FY-60 budget.
3. If the tests prove that the equipment is successful, \$683,000 of FY-60 funds will be required to equip the other four P2V7US with the new equipment. These funds have been requested in the FY-60 budget.
4. A decision should be made whether to proceed with the installation of the prototype equipment in the test airplane by 6 March 1959 in order to allow an orderly program of installation of the equipment, or close out, as the case may be.
5. Further details and information are available if you desire them.

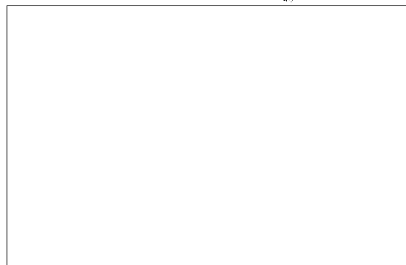
RECOMMENDATION:

6. That the prototype equipment that has been contracted for be installed and tested in the test P2V7U. A decision should be made as a result of these tests, and intelligence requirements, whether to install the new gear in the other four airplanes.

APPROVED:

Noted - Not SIGNED

RICHARD M. KISSILL, JR.
Deputy Director
(Plans)



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ITEM	FUNCTION	PROTOTYPE COST		OTHER 4 AIRPLANES		TOTAL	FY-58-59		FY-58-59		FY-60		REQ. NBR.	CONTRACT NBR.
		EQUIP.	INSTALL	EQUIP.	INSTALL		AMT FUNDED	AMT EXPENDED	AMT NOT YET FUNDED	AMT NOT YET FUNDED				
ALQ-28	Rapid scan ELINT tuneable receiver to provide greatly increased probability of intercept of 50-10,750 mc signals.	\$80,000	↑	320,000	24,000	424,000	80,000	80,000	344,000	913-46-556-59	Procured thru USN			
K BAND Tuneable Receiver	Tuneable ELINT receiver from 10,000-37,500 mc. No such equipment now available.	132,000	180,000a	160,000	24,000	496,000	312,000a	132,000	184,000	913-46-523-59	062-3594-9 T.O. #01-3594-9 Granger Assoc.			
ASN-7	Precision digital navigation computer. Independent of radio aids	33,000	↓	231,000	80,000	344,000	264,000	264,000	80,000	913-46-120-58	Ltr. Reg. 58-108 to USAF, 3 March 1958			
FLY TEST PROTOTYPE EQUIPMENT	Determine operational suitability prior to installation on other airplanes.	Flying Time \$55,000 Tech. Reps, etc. \$25,000	-	-	80,000	0	0	80,000	-	-				
		\$583,000		\$839,000		1,422,000	734,000	534,000	688,000					

a. Includes installation of ALQ-28, ASN-7, K Band receiver, flasher photo lights for all airplanes, and bringing test airplane up to operational configuration.

b. Funded by TSS

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FY-59 funds in the amount of \$250,000 have been obligated to USAF for IRAN of all 5 P2V7Us during FY-59. This is addition to the \$1,075,000 obligated for the modification and equipment improvement program that has been conducted concurrently with the IRAN.

The IRAN schedule is as follows:

Airplane #	IN IRAN	OUT
44043 (FE)	26 Jul 58	17 Nov. 58
44042 (FE)	9 Sept. 58	23 Dec. 58
44040 (FE)	12 Nov. 58	6 Mar. 59 (est)
44041 (FE)	10 Dec. 58	3 Apr. 59 (est)
44037 (test airplane)	9 Mar 59 (est)	30 Jun. 59 (Est)

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AN/ALQ-28

The AN/ALQ-28 is a sensitive scanning type superheterodyne Elink receiver covering the frequency range of [REDACTED] [REDACTED] The receiver provides greatly increased probability of intercept of signals within its frequency range. It scans each band in 2 seconds, which is about 43 times faster than with the receivers presently in use. It provides a panoramic type presentation of the entire frequency band being scanned and incorporates a long persistence display tube which makes possible a raster display of 2 minutes signal activity, thus greatly facilitating the recognition of signals. It also incorporates an integrated display of pulse width, pulse repetition frequency and D F. This receiver makes possible a much more rapid acquisition and analysis of signals than is presently possible, an important feature in low altitude operation.

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"X" BAND RECEIVER

This equipment is a tunable superheterodyne Klint receiver covering the frequency range of [] kilomegacycles. The indicator will provide a continuous indication of the entire frequency band on a cathode ray tube. The receiver will respond to the very narrow pulses expected in this frequency range. This receiver will represent the first Klint equipment in this range that possesses reasonable sensitivity, which is required since anticipated signals will be of low power. No agency in the U. S. presently possesses a receiver of this type. All receivers to date have been of the wide open crystal video type of low sensitivity, incapable of detecting a signal except when in very close proximity to the emitter.

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AN/ASN-7 NAVIGATIONAL COMPUTER

The ASN-7 Navigational Computer indicates the position of the airplane by a digital reading of longitude and latitude of the earth's coordinates. An additional feature of this equipment allows the operator to set the longitude and latitude of the next check point that he wishes to make good. A memory device in the ASN-7 records the coordinates of this check point and the unit indicates, by a homing needle, the heading to fly to arrive at the check point. The ASN-7 operates in conjunction with the dopple radar.

At the present time the F2V7US use dead reckoning and pilotage for navigation, except in the FE, where the Loran charts have been extended to cover the desired areas. The ASN-7 system will be a great improvement over and above all of these navigation systems.

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